WHAT IS CLAIMED IS:

- 1. A peptide selected from a group consisting of:
 - (a) $X_{01}X_{02}X_{03}GluIleGlnLeuX_{04}HisX_{05}X_{06}X_{07}LysX_{08}$ (SEQ ID

NO: 1),

(b) fragments thereof, containing amino acids 1-9, 1-10, 1-11,

1-12 or 1-13;

- (c) pharmaceutically acceptable salts thereof; and
- (d) N- or C- derivatives thereof;

wherein:

 X_{01} and X_{03} are each an α -helix stabilizing residue,

X₀₂ is Trp, Bpa, Arg or Val,

X₀₄ is is Met or Nle,

X₀₅ is Gln, Deg or Asn,

X₀₆ is Har or Leu,

 X_{07} is α -helix stabilizing residue, Ala or Gly,

 X_{08} is an α -helix stabilizing residue, Trp, Tyr or His; and wherein said peptide binds selectively to the J domain of P1R.

- 2. The peptide of claim 1, wherein said α -helix stabilizing residue is selected from the group consisting of Ac_5c , Ac_3c , Deg, Aib or the desamino form of Ac_5c , Ac_3c , Deg, or Aib.
 - 3. The peptide of claim 1, wherein said peptide is selected from:
 - (a) Ac5cBpaAibGluIleGlnLeuMetHisGlnHarAlaLysTrp (SEQ

ID NO:13);

(b) fragments thereof, containing amino acids 1-9, 1-10, 1-11,

1-12 or 1-13;

- (c) pharmaceutically acceptable salts thereof; or
- (d) N- or C- derivatives thereof.

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- 4. The peptide of claim 1, wherein said peptide is selected from:
- (a) Ac₃cValAibGlulleGlnLeuMetHisGlnHarAlaLysTrpNH₂ (SEQ ID NO: 14);
- (b) fragments thereof, containing amino acids 1-9, 1-10, 1-11, 1-12 or 1-13;
 - (c) pharmaceutically acceptable salts thereof; or
 - (d) N- or C- derivatives thereof.
 - 5. The peptide of claim 1, wherein said peptide is selected from:
 - (a) desamino

Ac₅cValAibGluIleGlnLeuMetHisGlnHarAlaLysTrpNH₂ (SEQ ID NO: 15);

- (b) fragments thereof, containing amino acids 1-9, 1-10, 1-11, 1-12 or 1-13;
 - (c) pharmaceutically acceptable salts thereof; or
 - (d) N- or C- derivatives thereof.
 - 6. The peptide of claim 1, wherein said peptide is selected from:
- (a) desamino AibValAibGluIleGlnLeuMetHisGlnHarAla-LysTrpNH₂(SEQ ID NO: 16);
- (b) fragments thereof, containing amino acids 1-9, 1-10, 1-11, 1-12 or 1-13;
 - (c) pharmaceutically acceptable salts thereof; or
 - (d) N- or C- derivatives thereof.
 - 7. The peptide of claim 1, wherein said peptide is selected from:
- (a) Ac₅cTrpAibGluIleGlnLeuMetHisGlnHarAlaLysTrpNH₂ (SEQ ID NO: 17);
- (b) fragments thereof, containing amino acids 1-9, 1-10, 1-11, 1-12 or 1-13;
 - (c) pharmaceutically acceptable salts thereof; or

- (d) N- or C- derivatives thereof.
- 8. The peptide of claim 1, wherein said peptide selected from:
- (a) Ac₃cBpaAibGlulleGlnLeuMetHisGlnHarAlaLysTrpNH₂ (SEQ ID NO: 18),
- (b) fragments thereof, containing amino acids 1-9, 1-10, 1-11, 1-12 or 1-13;
 - (c) pharmaceutically acceptable salts thereof; or
 - (d) N- or C- derivatives thereof.
 - 9. The peptide of claim 1, wherein said peptide selected from:
- (a) Ac₅cArgAibGlulleGlnLeuMetHisGlnHarAlaLysTrpNH₂ (SEQ ID NO: 19),
- (b) fragments thereof, containing amino acids 1-9, 1-10, 1-11, 1-12 or 1-13;
 - (c) pharmaceutically acceptable salts thereof; or
 - (d) N- or C- derivatives thereof.
 - 10. The peptide of claim 1, wherein said peptide selected from:
- (a) DegValDegGluIleGlnLeuMetHisGlnHarAlaLysTrpNH₂ (SEQ ID NO: 20);
- (b) fragments thereof, containing amino acids 1-9, 1-10, 1-11, 1-12 or 1-13;
 - (c) pharmaceutically acceptable salts thereof; or
 - (d) N- or C- derivatives thereof.
 - 11. The peptide of claim 1, wherein said peptide selected from:
- (a) DegTrpDegGluIleGlnLeuMetHisGlnHarAlaLysTrpNH₂ (SEQ ID NO: 21);
 - (b) fragments thereof, containing amino acids 1-9, 1-10, 1-11,

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1-12 or 1-13;

- (c) pharmaceutically acceptable salts thereof; or
- (d) N- or C- derivatives thereof.
- 12. The peptide of claim 1, wherein said peptide selected from:
- (a) DegBpaDegGlulleGlnLeuMetHisGlnHarAlaLysTrpNH₂ (SEQ ID NO: 22);
- (b) fragments thereof, containing amino acids 1-9, 1-10, 1-11, 1-12 or 1-13;
 - (c) pharmaceutically acceptable salts thereof; or
 - (d) N- or C- derivatives thereof.
 - 13. The peptide of claim 1, wherein said peptide selected from:
- (a) Ac₅cTrpAibGluIleGlnLeuNleHisGlnHarAlaLysTyrNH₂ (SEQ ID NO: 23);
- (b) fragments thereof, containing amino acids 1-9, 1-10, 1-11, 1-12 or 1-13;
 - (c) pharmaceutically acceptable salts thereof; or
 - (d) N- or C- derivatives thereof.
 - 14. The peptide of claim 1, wherein said peptide selected from:
- (a) Ac₃cBpaAibGluIleGlnLeuNleHisGlnHarAlaLysTyrNH₂ (SEQ ID NO: 24);
- (b) fragments thereof, containing amino acids 1-9, 1-10, 1-11, 1-12 or 1-13;
 - (c) pharmaceutically acceptable salts thereof; or
 - (d) N- or C- derivatives thereof.
 - 15. A peptide selected from a group consisting of:
 - (a) $X_{01}BpaX_{02}GluIleGlnLeuX_{03}HisX_{04}X_{05}X_{06}LysX_{07}LeuAla$

SerValX₀₈ArgX₀₉ (SEQ ID NO: 6);

- (b) fragments thereof, containing amino acids 1-20, 1-19, 1-18, 1-17, 1-16 or 1-15;
 - (c) pharmaceutically acceptable salts thereof; and
 - (d) N- or C- derivatives thereof;

wherein

 X_{01} and X_{02} are α -helix stabilizing residues,

X₀₂ is Aib, Gln, Deg or Asn,

X₀₃ is Met or Nle,

X₀₄ is Har or Leu,

 X_{05} is an α -helix stabilizing residue, Ala or Gly,

 X_{06} is an α -helix stabilizing residue (e.g. Aib) or Lys,

 X_{07} is an α -helix stabilizing residue, Trp or His,

 X_{08} is Arg or Glu and X_{09} is Tyr or Met; and wherein said peptide binds selectively to the J domain of P1R.

- 16. The peptide of claim 15, said peptide selected from:
- (a) DegBpaDegGluIleGlnLeuNleHisGlnHarAlaLysTrpLeuAla SerValArgArgTyrNH₂ (SEQ ID NO: 25);
- (b) fragments thereof, containing amino acids 1-11, 1-12 or 1-13;
 - (c) pharmaceutically acceptable salts thereof; or
 - (d) N- or C- derivatives thereof.
 - 17. The peptide of claim 1 or 15, wherein said peptide is labeled.
- 18. The peptide of claim 17, wherein said peptide is labeled with a fluorescent label.
 - 19. The peptide of claim 17, wherein said peptide is labeled with a

chemiluminescent label.

- 20. The peptide of claim 17, wherein said peptide is labeled with a bioluminescent label.
- 21. The peptide of claim 17, wherein said peptide is labeled with a radioactive label.
 - 22. The peptide of claim 21, wherein said peptide is labeled with ¹²⁵I.
- 23. The peptide of claim 21, wherein said peptide is labeled with ^{99m}Tc.
- 24. A competition binding assay to identify a PTH receptor ligand, which comprises contacting said receptor with a labeled peptide of claim 17 and a candidate receptor ligand, and measuring the label bound to the receptor.
- 25. A competition binding assay to analyze a PTH receptor ligand, which comprises contacting said receptor, or fragments or derivatives thereof, with a labeled peptide of claim 17 and a candidate receptor ligand, and measuring the label bound to the receptor.
- 26. A pharmaceutical composition comprising the peptide of claim 1 or 15, and a pharmaceutically acceptable carrier.
- 27. A method for treating mammalian conditions characterized by increased activity or production of PTH or PTHrP, said method comprising administering to a subject in need thereof an effective inhibitory amount of a peptide of claim 1 or 15.

- 28. A method for treating mammalian conditions characterized by increased activity or production of PTH or PTHrP, said method comprising administering to a subject in need thereof an effective inhibitory amount of a composition comprising a peptide of claim 1 or 15 and a pharmaceutically acceptable carrier.
- 29. The method of claim 26 or 27, wherein said condition to be treated is hypercalcemia.
- 30. The method of claim 28, wherein said condition to be treated is malignant hypercalcemia.
- 31. The method of claim 26 or 27, wherein said effective amount of said peptide for increasing bone mass is from about 0.01 μ g/kg/day to about 1.0 μ g/kg/day.
- 32. The method of claim 26 or 27, wherein the method of administration is parenteral.
- 33. The method of claim 26 or 27, wherein the method of administration is subcutaneous.
- 34. The method of claim 26 or 27, wherein the method of administration is nasal insufflation.
- 35. A method of making the peptide of claim 1 or 15, wherein said peptide is synthesized by solid phase synthesis.
- 36. The method of making the peptide of claim 1 or 15, wherein said peptide is protected by FMOC.